

FIGURE 1

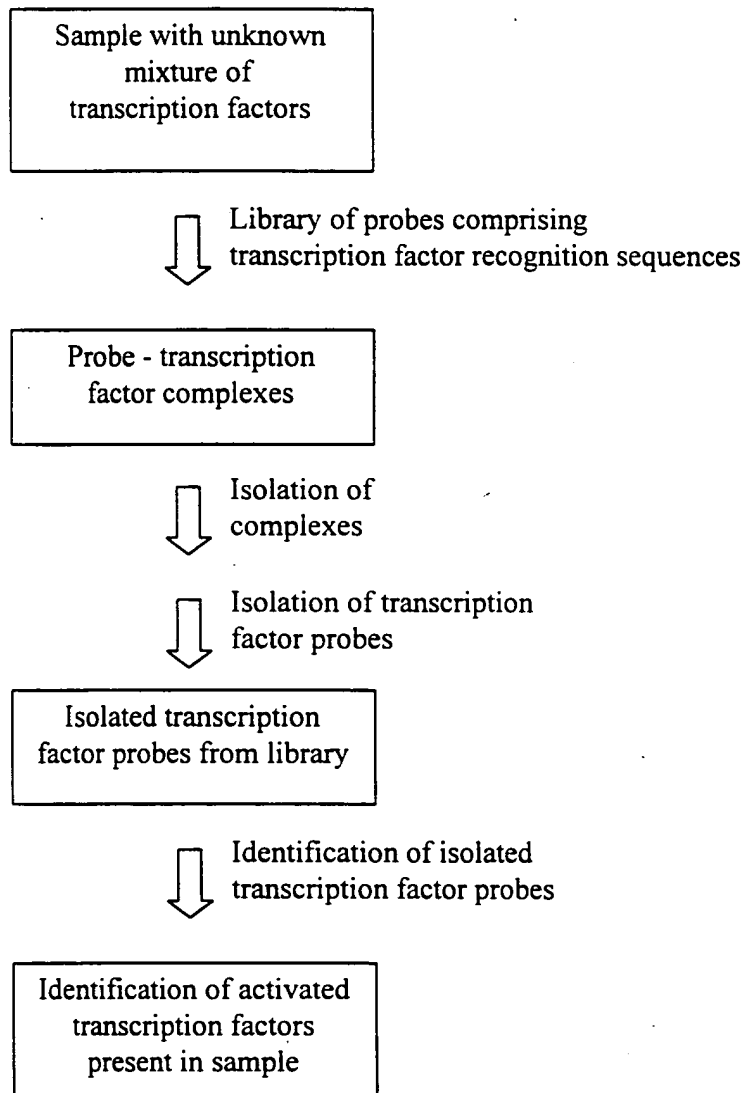
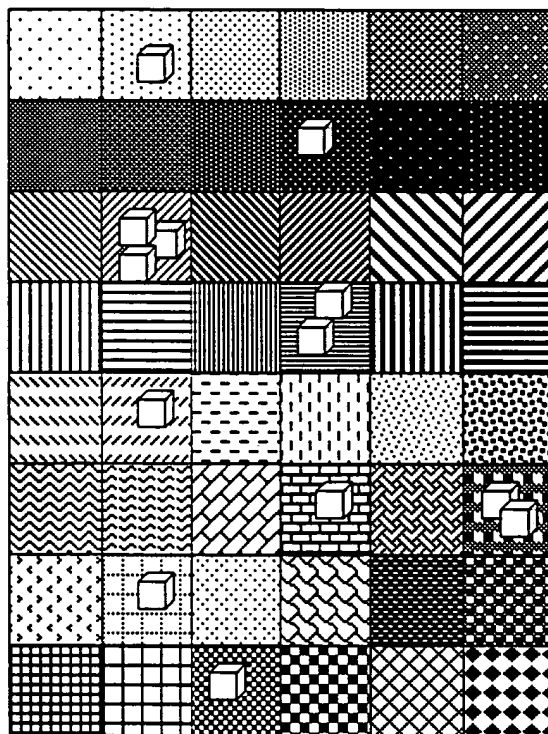
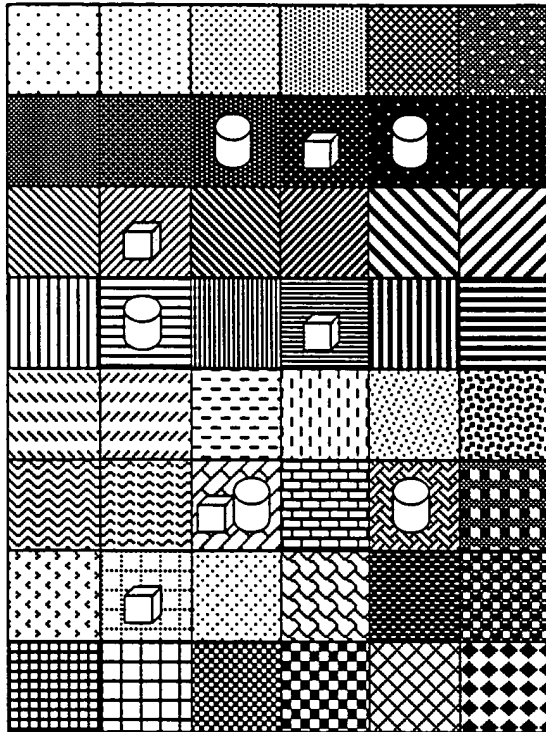


FIGURE 2



probe with detectable marker

FIGURE 3



LEGEND



probe with green dye



probe with red dye



region appearing yellow
having both probes with
green and red dyes

FIGURE 4

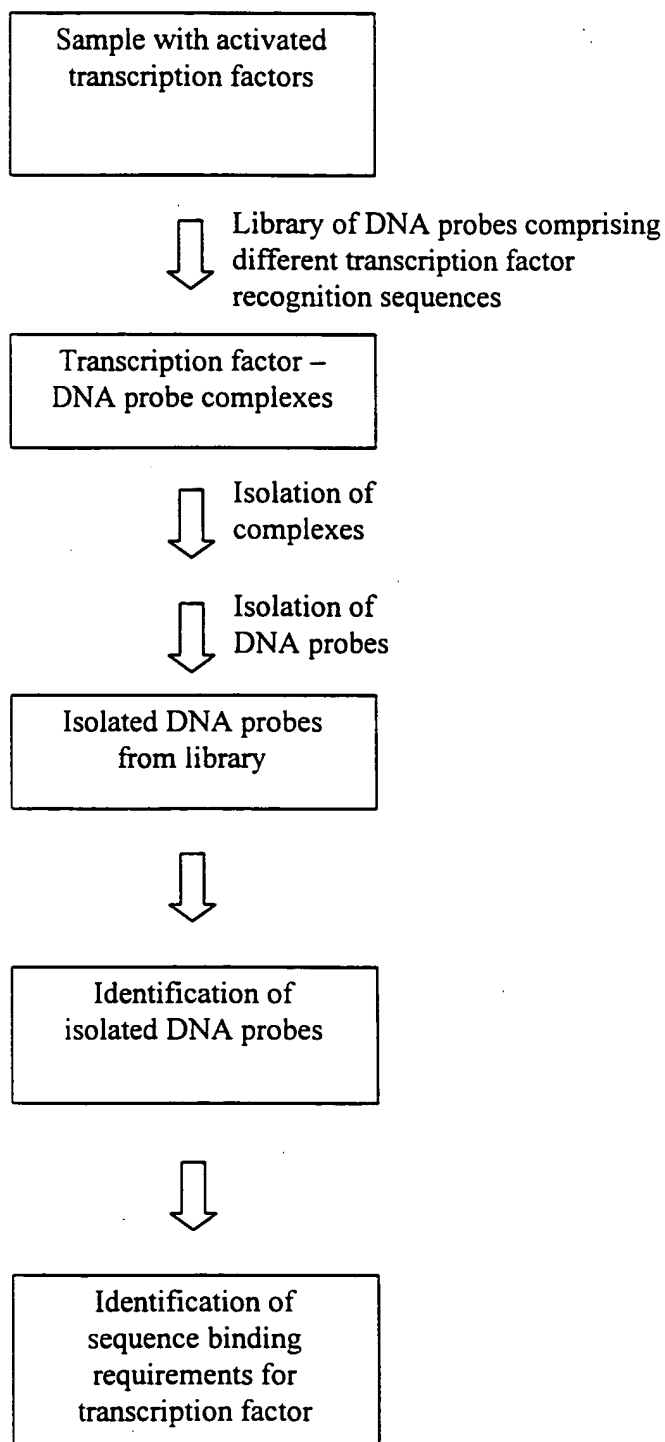


FIGURE 5

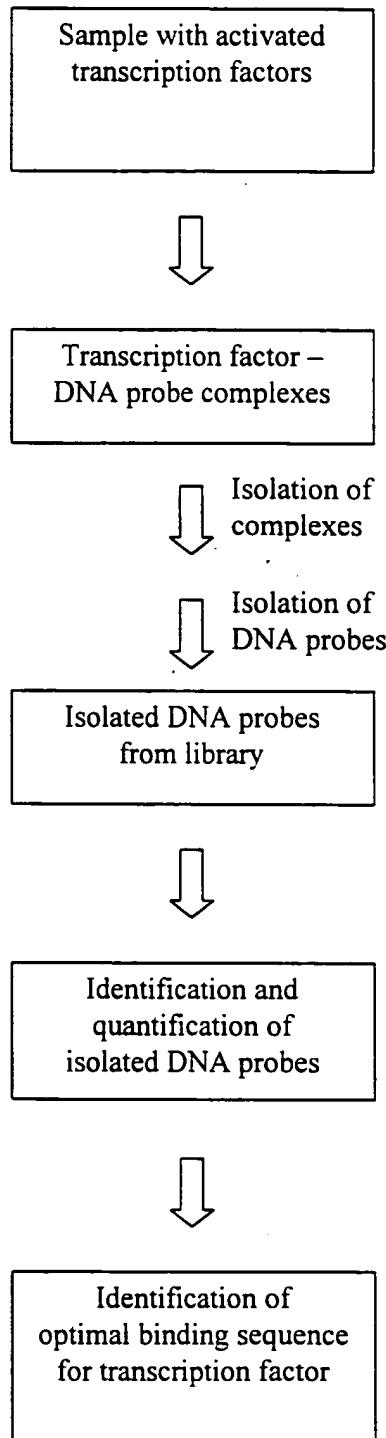


FIGURE 6 - CONTINUED

ETS-1/PEA3	PP27	GATCTGAGCAGGAAGTTCGA [SEQ ID NO: 27]	5'- biotin		TTATACTTCTCAAGCAGCCCTCCTCC [SEQ ID NO: 121]
ETS-1/PEA3	PP28	TCGAACTTCTGCTCGAGATC [SEQ ID NO: 28]		MP28	TCGAACTTCTGCTCGAGATCTCGAATCTTCCTG CTCGAGATCTCGAACTTCTGCTCGAGATC [SEQ ID NO: 122]
FAST-1	PP29	CGGATTGTGTATTGGCTGTAC [SEQ ID NO: 29]	5'- biotin		
FAST-1	PP30	GTACAGCCCAATACACAATCCG [SEQ ID NO: 30]		MP30	GTACAGCCCAATACACAATCCGGGTACAGCCCAATA CACAACTCCGGTACAGCCCAATACACAATCCG [SEQ ID NO: 123]
GAS/ISRE	PP31	CGAAGTACTTTCAGTTTCATATTACTCTACAA [SEQ ID NO: 31]	5'- biotin		
GAS/ISRE	PP32	TTGTAGAGTAATATGAACTGAAAGTACTTCG [SEQ ID NO: 32]		MP32	TTGTAGAGTAATATGAACTGAAAGTACTTCGT TGTAGAGTAATATGAACTGAAAGTACTTCGTT GTAGAGTAATATGAACTGAAAGTACTTCG [SEQ ID NO: 124]
GATA	PP33	CACCTTGATAACAGAAAGTGATAACTCT [SEQ ID NO: 33]	5'- biotin		
GATA	PP34	AGAGTTATCACTTCTCTGTATCAAGTG [SEQ ID NO: 34]		MP34	AGAGTTATCACTTCTCTGTATCAAGTGAGAGTT ATCACTTCTCTGTATCAAGTGAGAGTTATCACT TTCTGTATCAAGTG [SEQ ID NO: 125]
GRE	PP35	GACCCCTAGAGGATCTGTACAGGATGTTCTAGATCCAA TTCG [SEQ ID NO: 35]	5'- biotin		
GRE	PP36	CGAATTGGATCTAGAACATCCTGTACAGATCCTCTAG GGTC [SEQ ID NO: 36]		MP36	CGAATTGGATCTAGAACATCCTGTACAGATCCT CTAGGGTCCGAATTGGATCTAGAACATCCTGTA CAGATCCTCTAGGGTC [SEQ ID NO: 126]
HNF-4	PP37	CTCAGCTTGTAATTTGGTACAACTA [SEQ ID NO: 37]	5'- biotin		
HNF-4	PP38	TAGTTGTACCAAGTACAAAGCTGAG [SEQ ID NO: 38]		MP38	TAGTTGTACCAAGTACAAAGCTGAGTAGTTGTA CCAAAGTACAAAGCTGAGTAGTTGTACCAAGTA CAAGCTGAG [SEQ ID NO: 127]
IRF-1	PP39	GGAAGCGAAATGAAATTGACT [SEQ ID NO: 39]	5'- biotin		
IRF-1	PP40	AGTCAATTTCATTTTCGTTCC		MP40	AGTCAATTTCATTTTCGTTCCAGTCAATTTC

FIGURE 6 - CONTINUED

MEF-1	PP41	[SEQ ID NO: 40] GATCCCCCAACACCTGCTGCCTGA [SEQ ID NO: 41] TCAGGCAGCAGGTTGGGGGATC [SEQ ID NO: 42]	5'- biotin		TTTTGGCTTCCAGTCAATTTCATTTTTCGCTTCC [SEQ ID NO: 128]
MEF-1	PP42			MP42	TCAGGCAGCAGGTTGGGGGATCCTCAGGCAGCAGGTGTT GGGGGATC [SEQ ID NO: 129]
MEF-2	PP43	GATCGCTCTAAAAATAACCCCTGTCG [SEQ ID NO: 43] CGACAGGTTATTTTAGAGCGATC [SEQ ID NO: 44]	5'- biotin		CGACAGGTTATTTTAGACCGATCCGACAGGG TTATTTTAGACCGATCCGACAGGTTATTTT AGACCGATC [SEQ ID NO: 130]
Myc-Max	PP45	GGAAGCAGACCACGCTGCTGCTTCC [SEQ ID NO: 45] GGAAGCAGACCACGCTGCTGCTTCC [SEQ ID NO: 46]	5'- biotin		GGAAGCAGACCACGCTGCTGCTTCCGGAAGCA GACCACGCTGCTGCTTCCGGAAGCAGACCACG TGGTCTGCTTCC [SEQ ID NO: 131]
NF-1	PP47	TTTGGATTGAAGCCCAATATGATAA [SEQ ID NO: 47] TTATCATATTGGCTTCAATCCAAA [SEQ ID NO: 48]	5'- biotin		TTATCATATTGGCTTCAATCCAAATATATCATATGGCTTC TTGGCTTCAATCCAAATATATCATATGGCTTC AATCCAAA [SEQ ID NO: 132]
NFATC	PP49	ACGCCAAAGAGGAAAATTGTTTCATACA [SEQ ID NO: 49] TGATGAACAAATTTTCTCTTTGGGCGT [SEQ ID NO: 50]	5'- biotin		TGATGAACAAATTTTCTCTTTGGGCGTGT ATGAACAAATTTTCTCTTTGGGCGTGTATG AACAATTTTCTCTTTGGGCGT [SEQ ID NO: 133]
NF-E1 (YY1)	PP51	CGTCCGCGGCATCTTGGCGGCTGGT [SEQ ID NO: 51] ACGAGCGCAAGATGGCCGGGAGCG [SEQ ID NO: 52]	5'- biotin		ACGAGCGCAAGATGGCCGGGAGCGACGACG CGCAAGATGGCCGGGAGCGGATGCGCGGCGG GATGCGCGGAGCG [SEQ ID NO: 134]
NF-E2	PP53	TGGGAACCTGTGCTGATCACTGGAG [SEQ ID NO: 53]	5'- biotin		

FIGURE 6 - CONTINUED

NF-E2	PP54	CTCCAGTGACTCAGCACAGGTTCCCA		MP54	CTCCAGTGACTCAGCACAGGTTCCCACTCCAG TGACTCAGCACAGGTTCCCACTCCAGTGACTC AGCACAGGTTCCCA [SEQ ID NO: 135]
NFkB	PP55	AGTTGAGGGGACTTTCCCAAGC [SEQ ID NO: 55]	5'- biotin		
NFkB	PP56	GCCTGGGAAAGTCCCTCAACT [SEQ ID NO: 56]		MP56	GCCTGGGAAAGTCCCTCAACTGCCTGGGAAAG TCCCTCAACTGCCTGGGAAAGTCCCTCAACT [SEQ ID NO: 136]
Oct--1	PP57	TGTCGAATGCAATCACTAGAA [SEQ ID NO: 57]	5'- biotin		
Oct--1	PP58	TTCTAGTGATTTCCATTCGACA [SEQ ID NO: 58]		MP58	TTCTAGTGATTTCCATTCGACATTTCTAGTGATT TCCATTCGACATTTCTAGTGATTTCATTCGACA [SEQ ID NO: 137]
P53	PP59	TACAGAACATGTCTAAGCATGCTGGG [SEQ ID NO: 59]	5'- biotin		
P53	PP60	CCCAGCATGCTTAGACATGTTCTGTA [SEQ ID NO: 60]		MP60	CCCAGCATGCTTAGACATGTTCTGTACCCCACTCCAG CATGCTTAGACATGTTCTGTACCCCACTCCAGCATGCT TAGACATGTTCTGTA [SEQ ID NO: 138]
Pax-5	PP61	GAATGGGCACTGAGGCGTGACACCG [SEQ ID NO: 61]	5'- biotin		
Pax-5	PP62	CGGTGGTCACGCCTCAGTGCCCAATTC [SEQ ID NO: 62]		MP62	CGGTGGTCACGCCTCAGTGCCCAATTCCTGGTGG TCACGCCTCAGTGCCCAATTCCTGGTGGTACACGC CTCAGTGCCCAATTC [SEQ ID NO: 139]
Pbx1	PP63	CGAATTGATTGATGCACATAATTGGAG [SEQ ID NO: 63]	5'- biotin		
Pbx1	PP64	CTCCAATTAGTGCATCAATCAATTCG [SEQ ID NO: 64]		MP64	CTCCAATTAGTGCATCAATCAATTCGCTCCCAATTAGTGCA TAGTGCATCAATCAATTCGCTCCCAATTAGTGCA TCAATCAATTCG [SEQ ID NO: 140]
Pit 1	PP65	TGCTCTCCTGAATATGAATAAGAAATAA [SEQ ID NO: 65]	5'- biotin		
Pit 1	PP66	TTATTCTTATTATTCATATTCAGGAAGACA [SEQ ID NO: 66]		MP66	TTATTCTTATTATTCATATTCAGGAAGACATTATT TCTTATTATTCATATTCAGGAAGACATTATTCTTA TTCATATTCAGGAAGACA [SEQ ID NO: 141]
PPAR	PP67	CAAACTAGGTCAAAGGTCA [SEQ ID NO: 67]	5'- biotin		

FIGURE 6

EXAMPLES OF TRANSCRIPTION FACTOR PROBES AND ARRAY HYBRIDIZATION PROBES

TF	Name	Transcription Factor Probes		Name	Hybridization Probes
AP1	PP01	CGTTGATGACTCAGCCGGAA [SEQ ID NO: 1]	5'- biotin		
AP1	PP02	TTCCGGCTGAGTCATCAAGCG [SEQ ID NO: 2]		MP02	TTCCGGCTGAGTCATCAAGCGTTCCGGGTGAGT CATCAAGCGTTCCGGCTGAGTCATCAAGCG [SEQ ID NO: 109]
AP-2	PP03	GATCGAACTGACCGCCCGGCCGT [SEQ ID NO: 3]	5'- biotin		
AP-2	PP04	ACGGCCCGCGGGCGGTTCGATC [SEQ ID NO: 4]		MP04	ACGGCCCGCGGGCGGTTCGATCAGTTCGATCAGCGGCC GCGGGCGGTTCGATTCGATCAGCGGCCCGCGGGCG GTCAGTTCGATC [SEQ ID NO: 110]
ARE	PP05	GTCTGGTACAGGGTGTTCTTTT [SEQ ID NO: 5]	5'- biotin		
ARE	PP06	AAAAAGAACACCCCTGTACCAGAC [SEQ ID NO: 6]		MP06-1	AAAAAGAACACCCCTGTACCAGACAAAAAGAACAC CCCTGTACCAGACAAAAAGAACACCCCTGTACCACCA GAC [SEQ ID NO: 111]
Brn-3	PP07	CACAGCTCATTAAACGCGC [SEQ ID NO: 7]	5'- biotin		
Brn-3	PP08	GCGGTTAATGAGCTGTG [SEQ ID NO: 8]		MP08	GCGGTTAATGAGCTGTGGCGGTTAATGAGCT GTGGCGGTTAATGAGCTGTG [SEQ ID NO: 112]
C/EBP	PP09	TGCAGATTGCGCAATCTGCA [SEQ ID NO: 9]	5'- biotin		
C/EBP	PP10	TGCAGATTGCGCAATCTGCA [SEQ ID NO: 10]		MP10	TGCAGATTGCGCAATCTGCAATGCAAGATTGCGCA ATCTGCATGCAAGATTGCGCAATCTGCA [SEQ ID NO: 113]
CBF	PP11	AGACCGTACGTGATTGGTTAATCTCTT [SEQ ID NO: 11]	5'- biotin		
CBF	PP12	AAGAGATTAAACCAATCAGTACGGTCT [SEQ ID NO: 12]		MP12	AAGAGATTAAACCAATCAGTACGGTCTAAGAGAG TTAAACCAATCAGTACGGTCTAAGAGATTAAACCA AATCAGTACGGTCT [SEQ ID NO: 114]

FIGURE 6 - CONTINUED

PPAR	PP68	TGACCTTTGACCTAGTTTGG [SEQ ID NO: 68]		MP68	TGACCTTTGACCTAGTTTGG AGTTTGTGACCTTTGACCTAGTTTGG [SEQ ID NO: 142]
PRE	PP69	GATCCTGTACAGGATGTTCTAGCTACA [SEQ ID NO: 69]	5'- biotin		
PRE	PP70	TGTAGCTAGAACATCCTGTACAGGATC [SEQ ID NO: 70]		MP70	TGTAGCTAGAACATCCTGTACAGGATCTGTAGCTAGAAC TAGAACATCCTGTACAGGATCTGTAGCTAGAAC ATCCTGTACAGGATC [SEQ ID NO: 143]
RAR (DR-5)	PP71	TCGAGGGTAGGGTTCACCGAAAGTTCACCTCG [SEQ ID NO: 71]	5'- biotin		
RAR (DR-5)	PP72	CGAGTGAACCTTCGGTGAACCCCTACCCCTCGA [SEQ ID NO: 72]		MP72	CGAGTGAACCTTCGGTGAACCCCTACCCCTCGAGC AGTGAACCTTCGGTGAACCCCTACCCCTCGACGAG TGAACCTTCGGTGAACCCCTACCCCTCGA [SEQ ID NO: 144]
RXR (DR-1)	PP73	AGCTTCAGGTCAGAGGTCAGAGAGCT [SEQ ID NO: 73]	5'- biotin		
RXR (DR-1)	PP74	AGCTCTCTGACCTCTGACCTGAAGCT [SEQ ID NO: 74]		MP74	AGCTCTCTGACCTCTGACCTGAAGCTAGCTCTC TGACCTCTGACCTGAAGCTAGCTCTCTGACCTC TGACCTGAAGCT [SEQ ID NO: 145]
SIE	PP75	GTGCATTCCCGTAAATCTTGTCTACA [SEQ ID NO: 75]	5'- biotin		
SIE	PP76	TGTAGACAAGATTACGGGAAATGCAC [SEQ ID NO: 76]		MP76	TGTAGACAAGATTACGGGAAATGCACCTGTAGA CAAGATTACGGGAAATGCACCTGTAGACAAGAT TTACGGGAAATGCAC [SEQ ID NO: 146]
Smad SBE	PP77	AGTATGTCTAGACTGA [SEQ ID NO: 70]	5'- biotin		
Smad SBE	PP78	TCAGTCTAGACATACT [SEQ ID NO: 78]		MP78	TCAGTCTAGACATACTTCAGTCTAGACATACTT CAGTCTAGACATACTTCAGTCTAGACATACT [SEQ ID NO: 147]
Smad3/4	PP79	TCGAGAGCCAGACAAAAGCCAGACATTTAGCCAGAC AC [SEQ ID NO: 79]	5'- biotin		
Smad3/4	PP80	GTGCTGGCTAAATGTCTGGCTTTTGTCTGGCTCTC GA [SEQ ID NO: 80]		MP80	GTGCTGGCTAAATGTCTGGCTTTTGTCTGGC TCTCGAGTGTCTGGCTAAATGTCTGGCTTTTGT TCTGGCTCTCGAGTGTCTGGCTAAATGTCTGGC TTTTTGTCTGGCTCTCGA [SEQ ID NO: 148]

FIGURE 6 - CONTINUED

Sp1	PP81	ATTCGATCGGGCGGGGAG [SEQ ID NO: 81]	5'- biotin	MP82	CTCGCCCGCCCGATCGAATCTCGCCCGCCC CGATCGAATCTCGCCCGCCCGATCGAAT [SEQ ID NO: 149]
Sp1	PP82	CTCGCCCGCCCGATCGAAT [SEQ ID NO: 82]			
SRE	PP83	GGATGCCATATTAGGACATCT [SEQ ID NO: 83]	5'- biotin		
SRE	PP84	AGATGTCCTAATATGGACATCC [SEQ ID NO: 84]		MP84	AGATGTCCTAATATGGACATCCAGATGCTCTAA TATGGACATCCAGATGTCCTAATATGGACATCC [SEQ ID NO: 150]
Stat1 p84/p91	PP85	CATGTTATGCATATTCCTGTAAGTG [SEQ ID NO: 85]	5'- biotin		
Stat1 p84/p91	PP86	CACCTACAGGAATATGCATAACATG [SEQ ID NO: 86]		MP86	CACCTACAGGAATATGCATAACATGCACCTTACA GGAATATGCATAACATGCACCTTACAGGAATATG CATAACATG [SEQ ID NO: 151]
Stat3	PP87	GATCCTTCTGGGAATTCCTAGATC [SEQ ID NO: 87]	5'- biotin		
Stat3	PP88	GATCTAGGAATCCAGAGGATC [SEQ ID NO: 88]		MP88	GATCTAGGAATCCAGAGGATCGATCTAGGA ATCCAGAGGATCGATCTAGGAATCCCGAGA AGGATC [SEQ ID NO: 152]
Stat4	PP89	CTAGAGCCTGATTCCTCCGAAATGATGAGCTAG [SEQ ID NO: 89]	5'- biotin		
Stat4	PP90	CTAGCTCATCTTCGGGAAATCAGGCTCTAG [SEQ ID NO: 90]		MP90	CTAGCTCATCTTCGGGAAATCAGGCTCTAG CTAGCTCATCTTCGGGAAATCAGGCTCTAG CTAGCTCATCTTCGGGAAATCAGGCTCTAG [SEQ ID NO: 153]
Stat5	PP91	AGATTCTAGGAATTCATCC [SEQ ID NO: 91]	5'- biotin		
Stat5	PP92	GGATTGAATTCCTAGAAATCT [SEQ ID NO: 92]		MP92	GGATTGAATTCCTAGAAATCTGGATTGAATTC TAGAAATCTGGATTGAATTCCTAGAAATCT [SEQ ID NO: 154]
Stat5/Stat 6	PP93	GTATTCCCGAGAAAGAAC [SEQ ID NO: 93]	5'- biotin		
Stat5/Stat 6	PP94	GTTCTTTCTGGGAAATAC [SEQ ID NO: 94]		MP94	GTTCTTTCTGGGAAATACGTTCTTTCTCTGG GAAATACGTTCTTTCTCTGGGAAATAC [SEQ ID NO: 155]

FIGURE 6 - CONTINUED

TFIID	PP95	GCAGAGCATATAAATGAGGTAGGA [SEQ ID NO: 95]	5'- biotin	MP96	TCCTACCTCATTATATGCTCTGCTCCTACCT CATTATATGCTCTGCTCCTACCTCATTATAT ATGCTCTGC [SEQ ID NO: 156]
TFIID	PP96	TCCTACCTCATTATATGCTCTGCTCCTACCTCATTATATGCTCTGCTCTGCTCCTACCTCATTATAT [SEQ ID NO: 96]			
TR	PP97	GATCGTAAGATTTCAGGTGATGAGGAGA [SEQ ID NO: 97]	5'- biotin		
TR	PP98	TCTCCTCAGGTGATGACCTGAATCTTACGATC [SEQ ID NO: 98]		MP98	TCTCCTCAGGTGATGACCTGAATCTTACGATCT CTCCTCAGGTGATGACCTGAATCTTACGATCTC TCTCAGGTGATGACCTGAATCTTACGATC [SEQ ID NO: 157]
TR (DR-4)	PP99	AGCTTCAGGTGATGAGGAGGTCAGAGAGCT [SEQ ID NO: 99]	5'- biotin		
TR (DR-4)	PP100	AGCTCTCTGACCTCCTGTGACCTGAAGCT [SEQ ID NO: 100]		MP100	AGCTCTCTGACCTCCTGTGACCTGAAGCTAGCT CTCTGACCTCCTGTGACCTGAAGCTAGCTCTCT GACCTCCTGTGACCTGAAGCT [SEQ ID NO: 158]
USF-1	PP101	CACCCGGTCACGTGGCCTACACC [SEQ ID NO: 101]	5'- biotin		
USF-1	PP102	GGTGTAGGCCACGTGACCCGGGTG [SEQ ID NO: 102]		MP102	GGTGTAGGCCACGTGACCCGGGTGTTAGGCC ACGTGACCCGGGTGTTAGGCCACGTGACCCGG GTG [SEQ ID NO: 159]
VDR (DR-3)	PP103	AGCTTCAGGTCAAGGAGGTCAGAGAGCT [SEQ ID NO: 103]	5'- biotin		
VDR (DR-3)	PP104	AGCTCTCTGACCTCCTTGACCTGAAGCT [SEQ ID NO: 104]		MP104	AGCTCTCTGACCTCCTTGACCTGAAGCTAGCTC TCTGACCTCCTTGACCTGAAGCTAGCTCTCTGA CCTCCTTGACCTGAAGCT [SEQ ID NO: 160]
HSE	PP105	CTGGAATTTTCTAGA [SEQ ID NO: 105]	5'- biotin		
HSE	PP106	TCTAGAAAATTCAG [SEQ ID NO: 106]		MP106	TCTAGAAAATTCAGTCTAGAAAATTCAGTCT AGAAAATTCAGTCTAGAAAATTCAG [SEQ ID NO: 161]
MRE	PP107	CTCTGCGCCCGGCC [SEQ ID NO: 107]	5'- biotin		
MRE	PP108	GGCCGGCGGCAGAG [SEQ ID NO: 108]		MP108	GGCCGGCGGCAGAGGGCCGGCGGCAGAG CCGGCGGCAGAGGGCCGGCGGCAGAG [SEQ ID NO: 162]

Figure 7
Array Format of Transcription Factor Binding Elements

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
A	API	API	AP-2	AP-2	ARE	ARE	Bm-3	Bm-3	CEBP	CEBP	CBF	CBF	CDP	CDP	c-Myb	c-Myb		A
B	API	API	AP-2	AP-2	ARE	ARE	Bm-3	Bm-3	CEBP	CEBP	CBF	CBF	CDP	CDP	c-Myb	c-Myb		B
C	CRFB	CRFB	E2F-2	E2F-2	EGR	EGR	GRE	GRE	Ets	Ets	Ets-1/PEA3	Ets-1/PEA3	FAST-1	FAST-1	GAS/SRE	GAS/SRE		C
D	CRFB	CRFB	E2F-2	E2F-2	EGR	EGR	GRE	GRE	Ets	Ets	Ets-1/PEA3	Ets-1/PEA3	FAST-1	FAST-1	GAS/SRE	GAS/SRE		D
E	GATA	GATA	GRE	GRE	INE-4	INE-4	IRF-1	IRF-1	MEF-1	MEF-1	MEF-2	MEF-2	Myc-Max	Myc-Max	NF-1	NF-1		E
F	GATA	GATA	GRE	GRE	INE-4	INE-4	IRF-1	IRF-1	MEF-1	MEF-1	MEF-2	MEF-2	Myc-Max	Myc-Max	NF-1	NF-1		F
G	NFATc	NFATc	NF-E1(VY1)	NF-E1(VY1)	NF-E2	NF-E2	NFLB	NFLB	Oct-1	Oct-1	p53	p53	Pax-5	Pax-5	Pbx1	Pbx1		G
H	NFATc	NFATc	NF-E1(VY1)	NF-E1(VY1)	NF-E2	NF-E2	NFLB	NFLB	Oct-1	Oct-1	p53	p53	Pax-5	Pax-5	Pbx1	Pbx1		H
I	Pb1	Pb1	PPAR	PPAR	PRE	PRE	RAR(DR-5)	RAR(DR-5)	RXR(DR-1)	RXR(DR-1)	SIE	SIE	Smad SIE	Smad SIE	Smad3/4	Smad3/4		I
J	Pb1	Pb1	PPAR	PPAR	PRE	PRE	RAR(DR-5)	RAR(DR-5)	RXR(DR-1)	RXR(DR-1)	SIE	SIE	Smad SIE	Smad SIE	Smad3/4	Smad3/4		J
K	Sp1	Sp1	SRE	SRE	Stat1 p84/p90	Stat1 p84/p90	Stat3	Stat3	Stat4	Stat4	Stat5	Stat5	Stat6	Stat6	TFIID	TFIID		K
L	Sp1	Sp1	SRE	SRE	Stat1 p84/p90	Stat1 p84/p90	Stat3	Stat3	Stat4	Stat4	Stat5	Stat5	Stat6	Stat6	TFIID	TFIID		L
M	TR	TR	TR(DR-4)	TR(DR-4)	USF-1	USF-1	VDR(DR-3)	VDR(DR-3)	IISF	IISF	MRE	MRE						M
N	TR	TR	TR(DR-4)	TR(DR-4)	USF-1	USF-1	VDR(DR-3)	VDR(DR-3)	IISF	IISF	MRE	MRE						N
O																		O
P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		P

1 1000 Biotinylated 30AP83-5B oligonucleotides used for positioning

Duplicate Samples	
1	2
A	API
B	API

Normalized concentration
1:10 dilution of normalized concentration

Figure 8

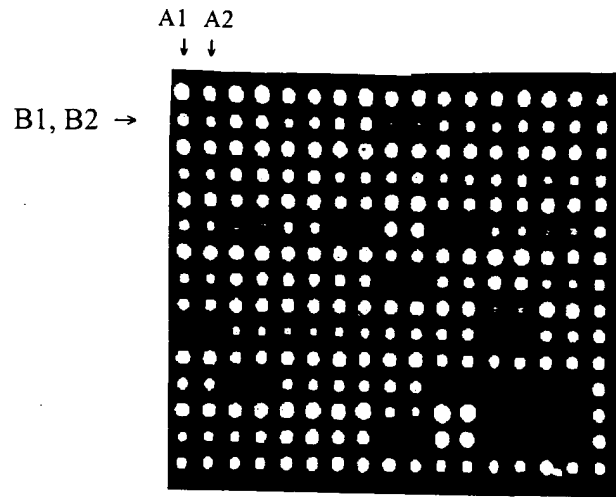


Figure 9A

Brn3



Figure 9B

c-Myb

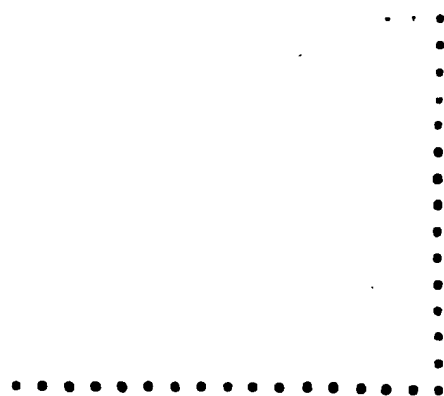


Figure 9C

Smad3/4

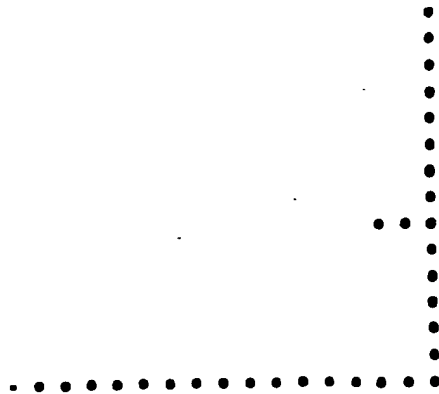


Figure 9D

Brn3+Myb+Smad3/4

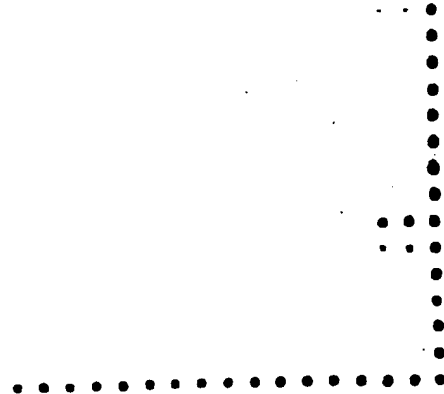


Figure 10A

Without HeLa nuclear extract



Figure 10B

With HeLa nuclear extract

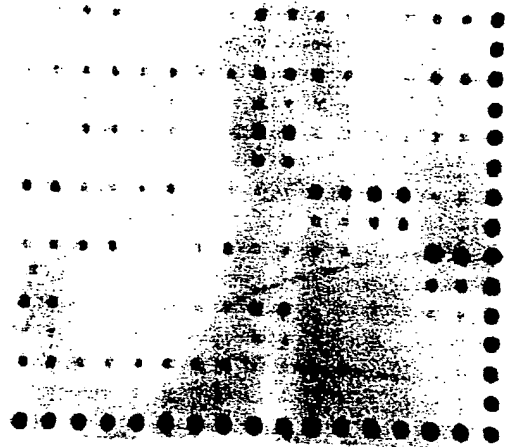


Figure 11A

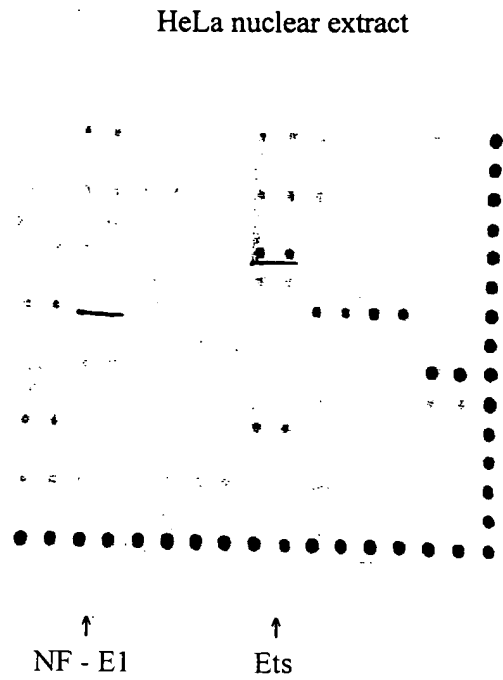


Figure 11B

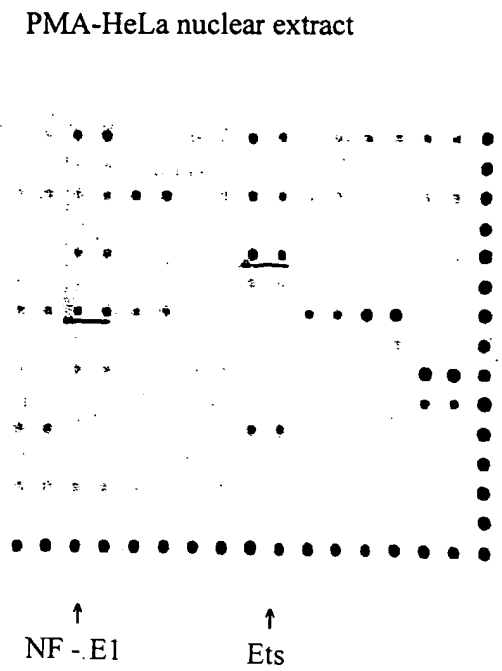


Figure 12A

HeLa	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A	15.46	16.7	22.61	22.95	12.07	8.92	11.39	17.62	26.98	28.15	21.31	17.39	14.2	17.23	21.92	22.17	77.28
B	10.06	10.82	13.53	14.05	10.59	10.51	14.08	17.59	18.09	16.99	18.74	14.89	12.47	13.17	14.78	13.86	77.12
C	15.24	18.3	18.1	19.57	18.34	20.43	16.05	20.18	26.6	27.86	22.65	18.44	14.14	14.76	19.91	18.82	68.98
D	11.7	12.35	12.3	13.4	13.52	13.52	11.09	15.57	18.7	17.73	16.88	15.4	12.28	12.5	12.92	12.16	69.76
E	14.66	12.34	16.63	17.17	13.79	15	12.61	16.67	36.72	37.54	14.18	13.86	12.74	12.81	15.48	14.5	63.85
F	12.68	10.28	10.55	11.17	9.66	10.71	10.84	14.93	22.98	22.28	13.51	13.34	12.34	12.45	14.71	14.28	62.87
G	21.57	22.18	15.79	15.65	15.55	17.06	12.47	15.3	17.27	16.05	27.5	29.53	34.65	36.09	16.79	15.52	68.54
H	11.99	12.36	11.64	11.08	12.84	13.08	10.69	13.72	14.91	13.42	17.43	15.77	19.07	17.66	15.06	16.24	65.92
I	15.02	16.81	17.8	18.87	13.03	11.97	13.12	19.72	16.7	16.58	18.41	16.93	14.61	13.53	59.17	52.3	66.31
J	15.33	13.17	12.18	11.53	11.66	11.68	11.32	16.82	16.1	15.91	17.93	16.58	16.19	14.17	22.59	22.46	67.11
K	24.95	24.46	12	11.3	13.2	13.72	13.96	18.67	24.52	24.4	19.04	17.02	18.27	14.65	14.12	13.3	54.1
L	15.52	15.71	11	10.38	11.53	12.76	14.23	16.99	18.56	17.8	19.35	18	17.21	13.33	12.79	12.3	62.16
M	22.73	23.34	18.2	16.62	17.74	19.49	21.31	22.91	18.15	17.79	22.82	22.11	18.4	15.81	13.07	12.9	68.6
N	12.43	13.7	14.16	14.11	14.1	17.87	19.19	18.96	15.37	15.33	19.62	19.4	17.7	16.22	13.22	12.12	68.43
O	67.86	72.6	63.6	64.4	66.58	76.09	61.65	64	59.1	57.89	63.19	53.98	66.81	58.05	66.86	63.92	77.05

Figure 12B

HeLa pma	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A	17.91	23.38	39.89	47.35	20.26	21.59	25.72	26.67	39.67	36.11	25.71	29.74	32.51	28.28	30.1	28.25	69.63
B	12.96	14.73	21	22.68	16.77	19.72	21.19	22.99	22.41	17.24	19.99	23.94	22.13	17.91	19.91	19.85	67.74
C	26.15	26.44	27.03	28.81	39.4	45.19	23.43	27.59	36.97	32.46	24.86	25.71	19.34	17.29	24.25	24.37	66.39
D	14.36	14.83	19.31	19.51	20.23	20.99	15.46	18.23	22.44	20.07	17.98	19.9	15.71	14.86	15.79	16.77	70.05
E	16.83	17.04	27.94	28.27	19	20.34	16.75	19.11	41.13	37.38	16.78	16.51	15.81	16.34	20.65	22.66	68.53
F	14.85	14.55	14.76	14.9	14.84	15.13	13.85	14.99	23.97	23.67	14.7	13.82	13.5	14.69	15.54	18.3	63.47
G	28.21	27.45	32.7	35.35	26.73	27.49	17.62	17.79	17.82	16.99	32.46	31.43	55.59	50.71	18.07	17.97	71.12
H	16.2	13.68	16.78	18.43	17.02	17.37	14.53	16.21	17.78	16.41	18.69	17.39	19.93	24.67	16.04	15.5	59.24
I	20.43	19.47	24.05	25.33	16.77	15.88	22.39	24.89	22.74	20.67	19.14	19.32	13.31	14.62	73.81	65.19	68.45
J	13.93	12.7	13.3	13.06	12.63	12.76	14.25	18.29	18.53	16.34	16.98	18.17	15.36	16.86	32.75	30.48	66.33
K	28.72	30.5	13.21	13.12	14.27	14.47	17.34	19.26	34.33	32.69	14.94	15.89	16.17	16.82	21.27	21.9	73.54
L	16.2	16.45	13.23	12.93	13.18	12.44	14	15.47	19.41	17.18	13.59	12.37	13.53	14.32	13.96	15.79	67.72
M	24.34	24.35	23.93	23.27	21.3	20.19	19.08	22.07	19.5	16.08	15.78	13.72	11.84	12.89	12.77	15.08	73.48
N	12.07	12.63	14.83	15.59	15.35	14.97	13.19	17.69	18.1	16.11	16.31	15.02	11.58	12.75	12.6	13.93	69.8
O	64.81	60.46	66.42	62.38	62	61.46	58.81	64.85	68.79	67.61	65.06	59.81	54.46	59.18	71.48	69.25	78.3

Figure 12C

	Ratio of pma vs non pma																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A	1.16	1.40	1.76	2.06	1.68	2.42	2.26	1.51	1.37	1.28	1.21	1.71	2.29	1.64	1.37	1.27	0.90
B	1.29	1.36	1.55	1.61	1.58	1.88	1.50	1.31	1.24	1.01	1.07	1.61	1.77	1.36	1.35	1.43	0.88
C	1.72	1.44	1.49	1.47	2.15	2.21	1.46	1.37	1.39	1.17	1.10	1.39	1.37	1.17	1.22	1.29	0.96
D	1.23	1.20	1.57	1.46	1.50	1.55	1.39	1.17	1.20	1.13	1.07	1.29	1.28	1.19	1.22	1.38	1.00
E	1.15	1.38	1.68	1.65	1.38	1.36	1.33	1.15	1.12	1.00	1.18	1.19	1.24	1.28	1.33	1.56	1.07
F	1.17	1.42	1.40	1.33	1.54	1.41	1.28	1.00	1.04	1.06	1.09	1.04	1.09	1.18	1.06	1.28	1.01
G	1.31	1.24	2.07	2.26	1.72	1.61	1.41	1.16	1.03	1.06	1.18	1.06	1.60	1.41	1.08	1.16	1.04
H	1.35	1.11	1.42	1.48	1.33	1.33	1.36	1.18	1.19	1.22	1.07	1.10	1.05	1.40	1.07	0.95	0.90
I	1.36	1.16	1.35	1.34	1.29	1.33	1.71	1.26	1.36	1.25	1.04	1.14	0.91	1.08	1.25	1.25	1.03
J	0.91	0.96	1.09	1.13	1.08	1.09	1.26	1.09	1.15	1.03	0.95	1.10	0.95	1.19	1.45	1.36	0.99
K	1.15	1.25	1.10	1.16	1.08	1.05	1.24	1.03	1.40	1.34	0.78	0.93	0.89	1.15	1.51	1.65	1.36
L	1.04	1.05	1.20	1.25	1.14	0.97	0.98	0.91	1.05	0.97	0.70	0.69	0.79	1.07	1.09	1.28	1.09
M	1.07	1.04	1.31	1.40	1.20	1.04	0.90	0.96	1.07	0.90	0.69	0.62	0.64	0.82	0.98	1.17	1.07
N	0.97	0.92	1.05	1.10	1.09	0.84	0.69	0.93	1.18	1.05	0.83	0.77	0.65	0.79	0.95	1.15	1.02
O	0.96	0.83	1.04	0.97	0.93	0.81	0.92	1.01	1.16	1.17	1.03	1.11	0.82	1.02	1.07	1.08	1.02

Figure 13

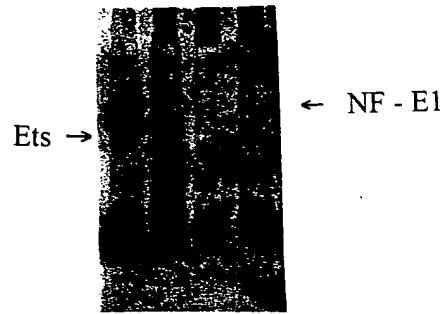


Figure 14A

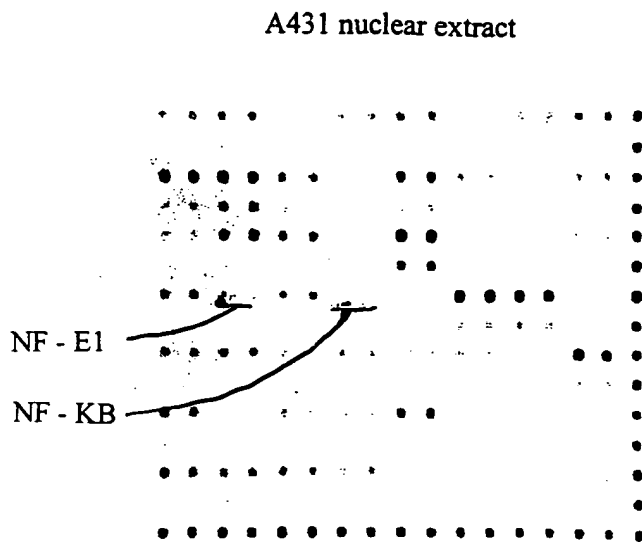


Figure 14B

PMA-A431 nuclear extract

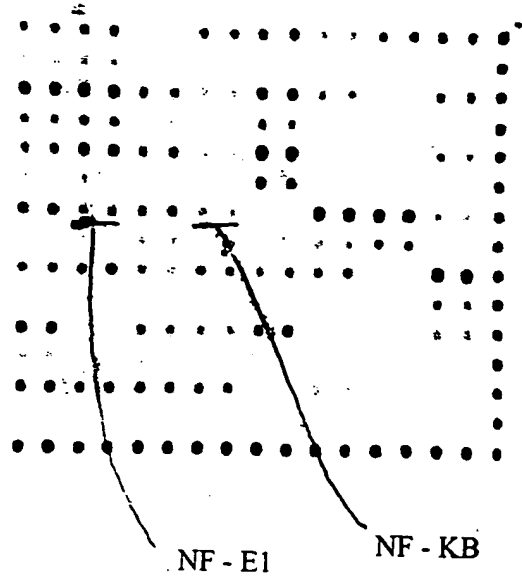


Figure 15

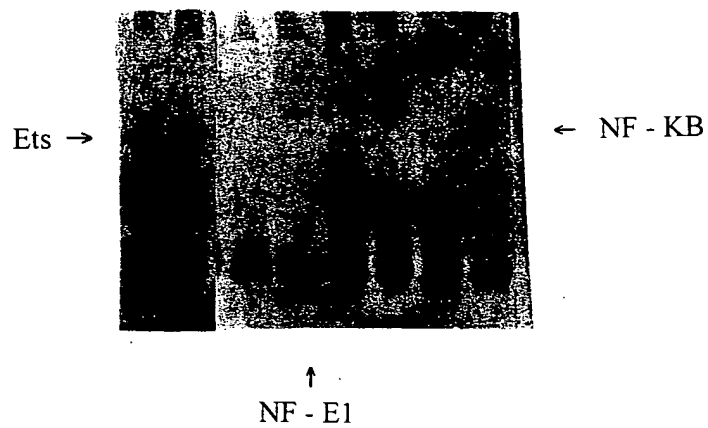


Figure 16A

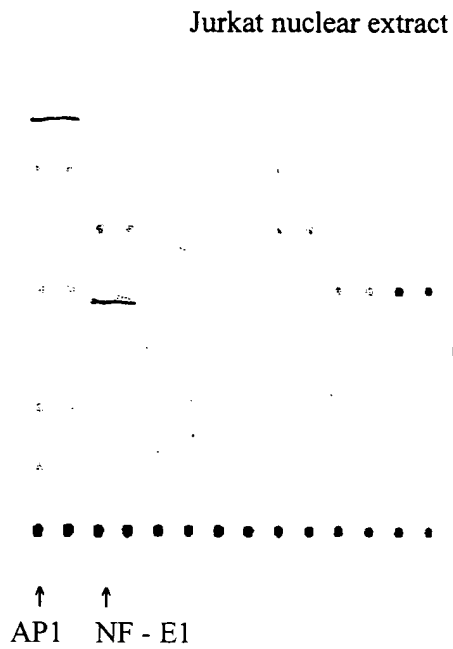


Figure 16B

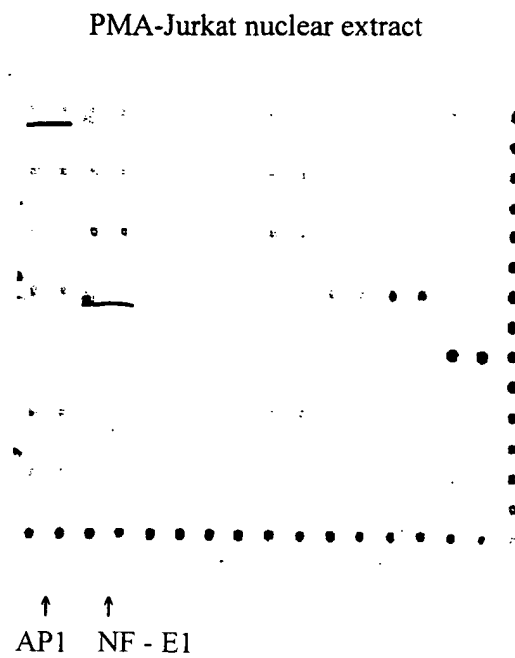


Figure 17A

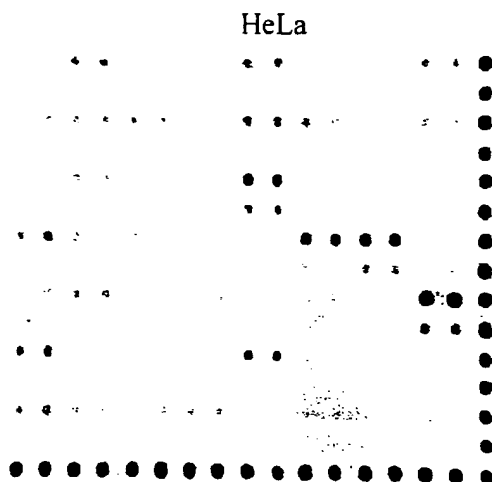


Figure 17B

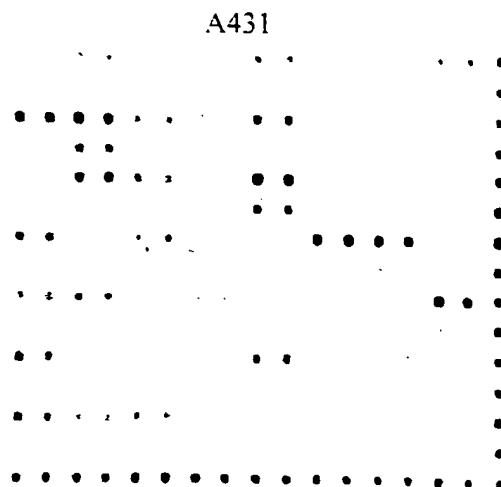


Figure 17C

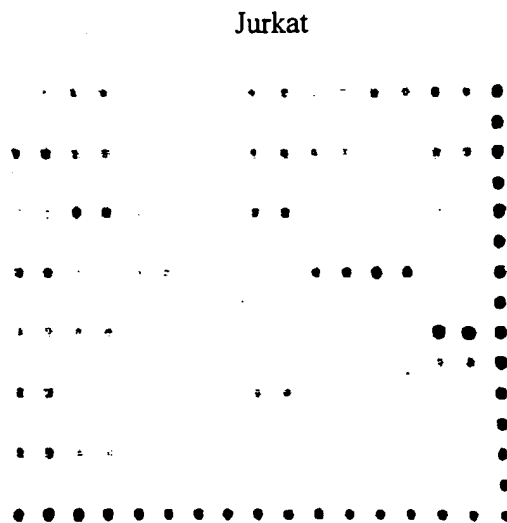


Figure 17D

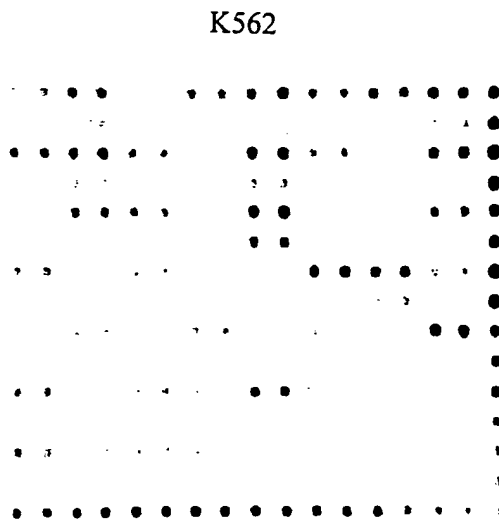


Figure 17E

Y79

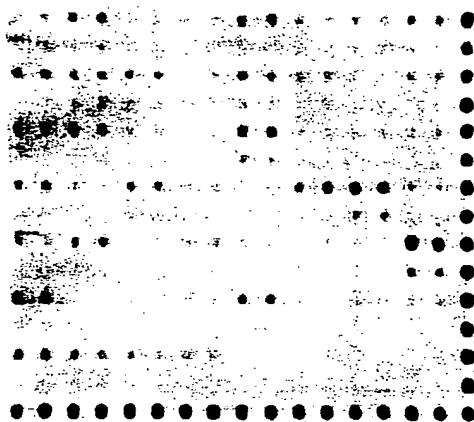


Figure 18A

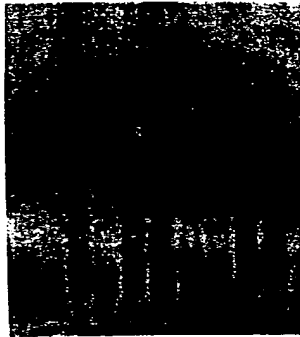


Figure 18B

